SIROCCO
LIMITED

DECORATIVE FUEL EFFECT APPLIANCE

THIS IS NOT A "DO-IT-YOURSELF" PRODUCT

THIS IS A **NATURAL GAS** (G20) APPLIANCE FOR USE IN **GB** AND **IE** ONLY AT A SUPPLY PRESSURE OF 20mbar.

USER INSTALLATION & SERVICE MANUAL
FOR: -
ECO 1& 2

PLEASE KEEP THESE INSTRUCTIONS IN A SAFE PLACE FOR FUTURE REFERENCE

Our policy is one of constant development and improvement.
Strict accuracy of illustrations and specifications is not guaranteed.
Modifications to design and materials may be necessary subsequent to publication.

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VII-11-09

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IMPORTANT NOTES

IMPORTANT: PLEASE READ ALL OF THE INSTRUCTIONS IN THIS BOOKLET BEFORE COMMENCING INSTALLATION AS FAILURE TO COMPLY WITH THE REGULATIONS HEREIN COULD LEAD TO PROSECUTION & INVALIDATE THE WARRANTY

1. SOFT WALL COVERINGS, (e.g. EMBOSSED VINYLS etc.) WHICH HAVE A RAISED PATTERN, ARE EASILY AFFECTED BY HEAT AND MAY SCORCH OR BECOME DISCOLOURED WHEN CLOSE TO A HEATING APPLIANCE. PLEASE BEAR THIS IN MIND WHEN RE-DECORATING.

2. AS WITH ANY GAS FIRE, THIS APPLIANCE MUST BE INSTALLED BY A COMPETENT PERSON (e.g. IN **GB** A C.O.R.G.I. MEMBER) IN ACCORDANCE WITH THE INSTALLATION INSTRUCTIONS AND THE LATEST EDITION OF THE GAS SAFETY (INSTALLATION AND USE) REGULATIONS OR THE RULES IN FORCE.

3. IF THE FIRE IS INTENDED TO BE INSTALLED TO A FIREPLACE THAT WAS PREVIOUSLY USED FOR BURNING SOLID FUELS THE CHIMNEY MUST BE SWEPT PRIOR TO INSTALLATION.

4. THE FIRE MUST NOT BE INSTALLED DIRECTLY ONTO CARPETS OR OTHER COMBUSTIBLE MATERIALS.

5. THE FIRE MUST STAND ON A NON-COMBUSTIBLE HEARTH. THE HEARTH MATERIAL MUST BE A MINIMUM OF 12.5mm THICK. ITS TOP SURFACE SHOULD BE 50mm ABOVE THE FLOOR LEVEL TO DISCOURAGE THE PLACING OF RUGS, CARPETS OR OTHER COMBUSTIBLE MATERIALS OVER IT. THE FINISHED HEARTH LEVEL MUST EXTEND 300mm BEYOND THE VERTICAL FACE OF THE FIREPLACE OPENING. THE MINIMUM WIDTH OF THE HEARTH MUST BE 650mm.

6. THE FIRE MUST NOT BE FITTED AGAINST A COMBUSTIBLE WALL.

7. THE MINIMUM HEIGHT ABOVE THE TOP SURFACE OF THE HEARTH FOR ANY PROJECTION (e.g. SHELF etc.) 150mm DEEP MADE FROM WOOD OR ANY OTHER COMBUSTIBLE MATERIAL IS 766mm. FOR COMBUSTIBLE PROJECTIONS ABOVE 150mm DEPTH ADD 12.5mm TO THE ABOVE CLEARANCE FOR EVERY 25mm OF ADDITIONAL PROJECTION DEPTH.

8. NEVER THROW PAPER OR OTHER MATERIAL ONTO THE FIRE.

9. IT SHOULD BE APPRECIATED THAT ALTHOUGH THIS APPLIANCE CONFORMS TO ALL THE REQUIRED STANDARDS, IT IS A DECORATIVE FUEL EFFECT HEATING APPLIANCE WITH AN OPEN FLAME AND CERTAIN PARTS OF ITS SURFACE WILL BECOME HOT. A SUITABLE GUARD, WHICH COMPLIES WITH THE REQUIREMENTS OF B.S. 8423 IS THERFORE RECOMMENDED FOR THE PROTECTION OF THE VERY YOUNG, THE ELDERLY OR THE INFIRM. SUCH A GUARD IS ALSO RECOMMENDED FOR THE PROTECTION OF PET ANIMALS.

   A DRESSGUARD IS ALSO AVAILABLE (PART NUMBER 1423-1) WHICH WILL PROVIDE LIMITED PROTECTION FROM ACCIDENTAL CONTACT WITH THE FLAMES.

10. ALWAYS SWITCH THE FIRE OFF AND ALLOW SUFFICIENT TIME FOR IT TO COOL DOWN BEFORE HANDLING ANY COMPONENTS.

11. PLEASE NOTE THAT THIS APPLIANCE RETAINS HEAT FOR A LONG TIME AFTER IT HAS BEEN TURNED OFF.

PLEASE NOTE

On first lighting your new fire, a slight odour may occur due to its new condition. This is quite normal and will disappear after a few hours use.

After some hours use, the ceramic coal pieces may change colour. This is quite normal.

The fire has been designed to give years of trouble free service. To maintain its optimum performance, advantage should be taken of the regular servicing and inspection facilities available for gas appliances.

Annual servicing is recommended. These instructions are provided to help you in operating the fire and should be kept in a safe place.

USER'S SECTION

FUEL EFFECT

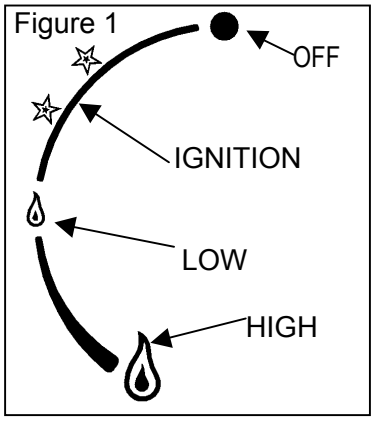
This fire is supplied with ceramic fuel effect pieces to simulate a real fire. These items are safe to handle and the coals are designed for easy re-fitting after removal.

GAS CONSUMPTION

These fires have a maximum gas input of 6.9 kW, which is equal to approximately 4.25 hours use for one therm of natural gas.

OPERATING INSTRUCTIONS

Figure 1



For your safety, the fire is fitted with a Flame Supervision Device (FSD), which will shut off the gas supply if for any reason the pilot is extinguished. This device incorporates a fixed probe, which senses heat from the pilot burner flame. If the probe is cool, the device will prevent any gas flow unless the control knob is pushed in at the IGNITION position.

If for any reason the flames go out or if the fire has been turned off for any reason, always **WAIT FOR 3 MINUTES** before attempting to re-light.

TO LIGHT THE FIRE

1. From the off position, SLOWLY push in and turn the control knob anti-clockwise to activate the spark at the **IGNITION** position.

   PLEASE NOTE: The ignition will produce 2 sparks (2 clicks) for ease of ignition.

2. Keep the control knob pressed in at this position for approximately 10 – 20 seconds to allow the Flame Supervision Device to warm.
3. Release the control knob. The burner should remain lit independently.

SELECT THE BURNER FLAME LEVEL

NOTE: When first turned on the flames will appear predominately blue. The coal bed will take time to warm up. Although some glow will be seen after 5 – 10 minutes, the full effect will only be apparent after a somewhat longer time.

1. After lighting the burner as described above, turn the control knob anti-clockwise to the **LOW** position. The fire will now be operating at its lowest setting.

2. To increase the amount of flame push the control knob in slightly and turn to the HIGH position. The fire can now be used at any desired setting at any position between minimum (**LOW**) and maximum (**HIGH**).

TO TURN OFF

Push in and turn the control knob clockwise to the OFF position to extinguish the flames.

CLEANING

All cleaning **MUST** be carried out when the fire is cold. NOTE: Heat is retained for some time after the fire is switched OFF. Clean the surround and fender parts with a slightly damp cloth and then dry. Abrasive cleaners should **NOT** be used.

Normally the fire should only need dusting. Light coatings of soot will usually be burnt off during the normal operation of the fire. If however, particles of mortar from the chimney accumulate these should be removed from the coals and back brick by dismantling them and cleaning with a soft brush. If you remove the fuel effect pieces, then do so in the reverse order to that shown in the fuel bed fitting instructions (page 5).

If large pieces of debris are found any where in the fireplace, the chimney and appliance should be inspected and serviced by a competent person before further use.

OXYGEN DEPLETION SYSTEM

If the Oxygen Depletion System (ODS) operates, i.e. shuts off the gas supply to the fire, WAIT FOR THREE MINUTES and follow the operating instructions on pages 4 and 5.

The ODS is designed to shut off the gas supply to the burner if the oxygen content of the room falls below a certain level. If it continues to operate then contact your installer to have the fire and flue system checked.

SERVICING AND MAINTENANCE

If your fire requires servicing or maintenance, please contact your supplier quoting the model name (e.g. eco **2**) and the serial number. Both of which can be found on the data badge, which is located next to the control knob behind the ash pan cover.

A full service kit is available.

FUEL BED ASSEMBLY

The eco **1,2 & 3** are available with two different fuel effects as follows:

Coal Made up of a rear ceramic, front ceramic and 14 coals.

Pebbles Made up of a rear ceramic, front ceramic and 14 pebbles.

COAL / PEBBLE LAYOUT

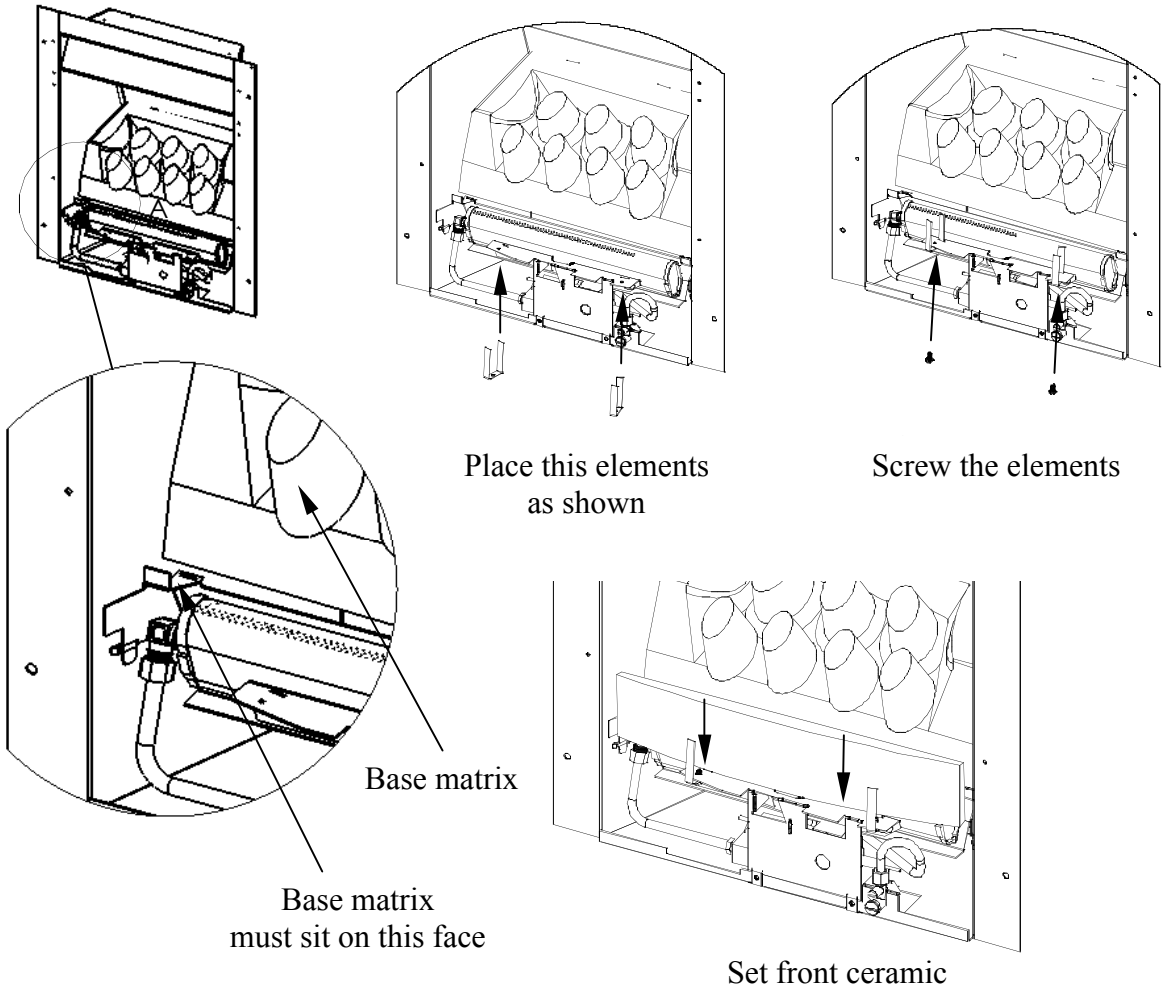
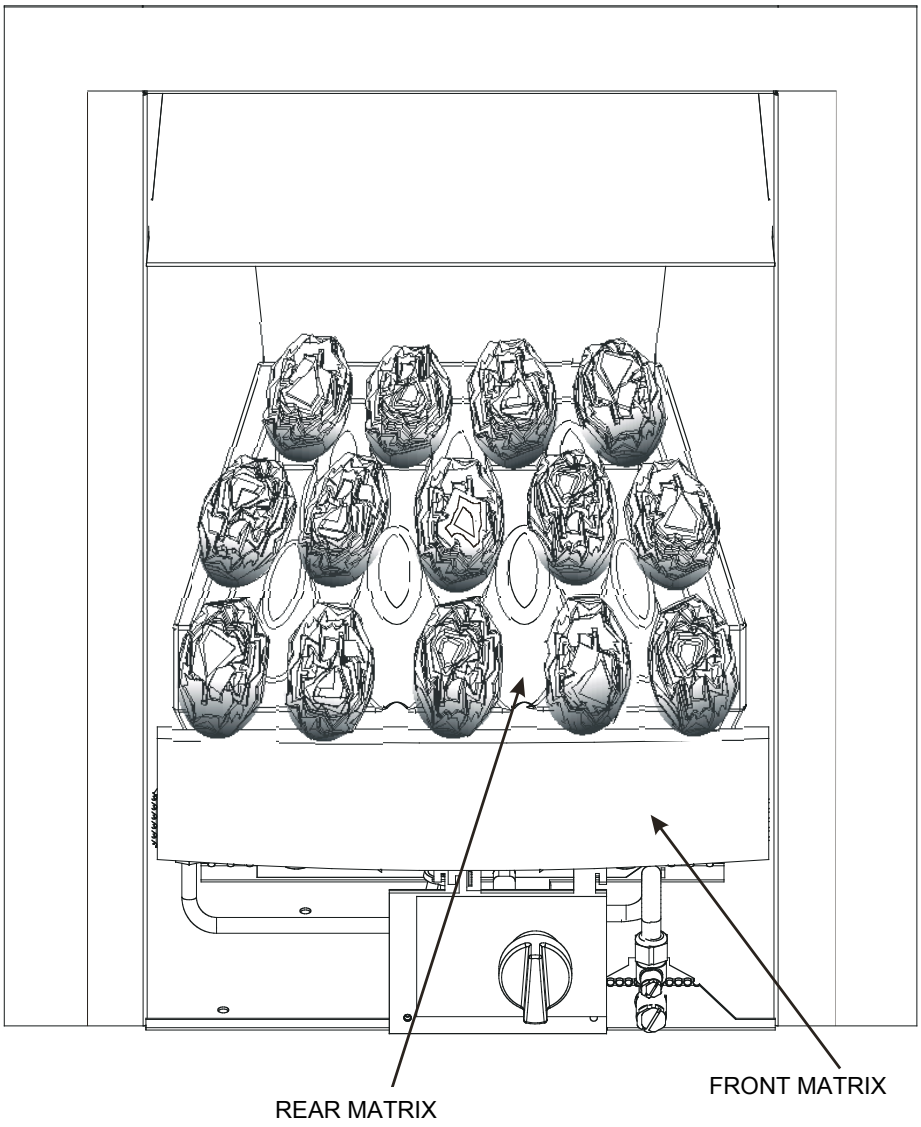


Figure 3A



(eco 1,2&3)

Place 5 coals / pebbles on the front ceramic, 5 on the middle row of the floor matrix and 4 on the back row. As shown in figure 3A

The Coals/Pebbles **MUST** be placed, sitting on-top of the front ceramic resting between the pillars of the floor matrix.
(as shown in fig 3A and fig 3B)

This allows the flame path to take its correct direction.

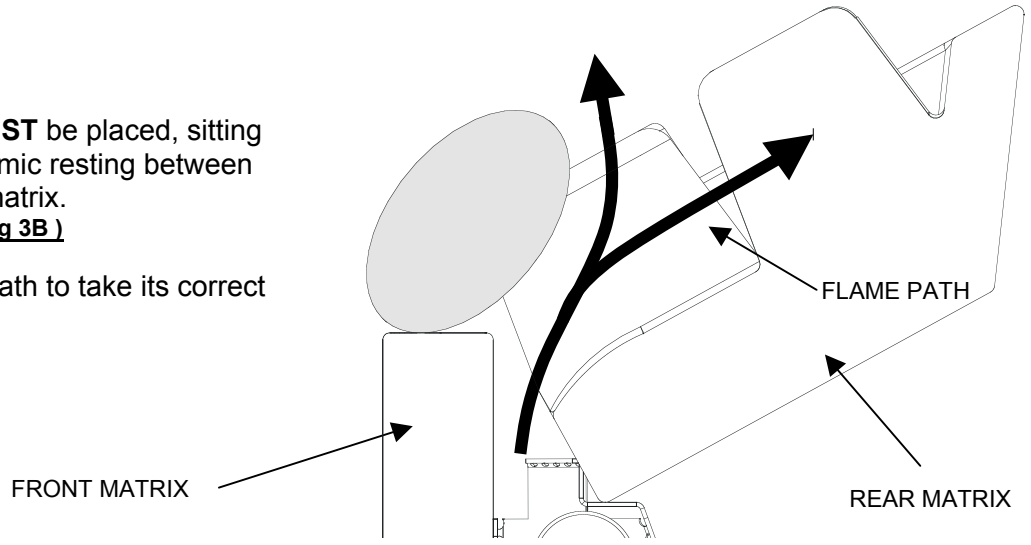


Figure 3B

INSTALLATION SECTION

NO COMPONENT IS MANUFACTURED FROM ASBESTOS OR ASBESTOS RELATED PRODUCTS.

THE APPLIANCE DATA BADGE IS LOCATED NEXT TO THE CONTROL KNOB.

1 GENERAL DATA

Eco 1 2 & 3 Natural Gas

Gas Type & category	NATURAL GAS (G20) I_2H
Inlet Pressure:	20mbar
Maximum Input Gross:	6.9kW
Gas Connection:	8mm COMPRESSION
Gas Tap Assembly:	CPMM 18700/344 C/P

2 GENERAL INSTALLATION REQUIREMENTS

2.1 In your own interest and that of safety, it is the law that all gas appliances are installed by competent persons in accordance with the Gas Safety (Installation & Use) Regulations 1994 (as amended) or the rules in force. Failure to install appliances correctly could lead to prosecution.

The Council of Registered of Gas Installers (CORGI) requires its members to work to recognised standards.

The installation MUST be in accordance with these instructions, all the relevant pars of the current editions of the following British Standards and the relevant British Standard installation specifications and codes of practice and the Building Regulations issued by the Department of the Environment and the Building Standards (Scotland) (Consolidation) Regulations issued by the Scottish Development Department:

BS 5871 : Part 3
BS 5440 : Parts 1 & 2
BS 6891
BS 6461 : Parts 1 & 2
BS 8303
BS 4543 : Part 2
BS 1251

Installations in **IE**

The installation must be carried out by a competent person and installed in accordance with the current edition of I.S.813 “Domestic Gas Installations” and the current building regulations.

2.2 The appliance can be used in a builders opening or fireplace conforming to the sizes below: -

The Minimum depth of the opening (see Figure 4 dimension C) in the case of the Hotbox (Eco 1 & 2 only) shall be 180mm and 200mm for the Convector box (Eco 1 & 2 only). The minimum front width (see Figure 4 dimension A) of the chairbrick opening shall be (E1) 410mm or (E2) 360mm. The minimum height (see Figure 4 dimension B) shall be 550mm for the Hotbox and Convector Box versions.

The flue should be a Class 1or 2 type with a minimum effective height of 3 metres.

Suitable flues and minimum flue sizes are as follows:

2.3

a) 175mm diameter lined brick or stone flue.
b) 200mm diameter factory made insulated flue manufactured to BS 4543.
c) 225mm x 225mm conventional brick built chimney.
d) 125mm diameter flue pipe (see BS-6461: part 1 for suitable materials

2.4 The flue **MUST NOT** be used for any other appliance or application.

2.5 Any chimney dampers or restrictors should be removed. If removal is not possible then they **MUST** be fixed in the open position.

2.6 If the appliance is intended to be installed to a chimney, which was previously used for solid fuels, then the chimney **MUST** be swept clean prior to installation.

2.7 If the fireplace is of the underfloor draught type then it **MUST** be sealed to stop any draughts.

2.8 The appliance **MUST** be mounted on a non-combustible hearth (Note: conglomerate marble hearths are considered as non-combustible). The hearth material **MUST** be at least 12.5mm thick. Its top surface should be 50mm above the floor level to discourage the placing of rugs or carpets over it. The appliance can be fitted to a purpose made

proprietary class "O" – 100°C or 150°C surround.

2.9 In particular the finished hearth level **MUST** extend 300mm in front of the vertical face of the fireplace. The minimum width of the hearth is 650mm.

THE APPLIANCE MUST NOT STAND ON COMBUSTIBLE MATERIALS OR CARPETS OR BE FITTED TO A COMBUSTIBLE WALL.

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2.10 The minimum height above the top surface of the hearth for any projection (e.g. shelf etc.) 150mm deep made from wood or any other combustible material is 766mm. For combustible projections above 150mm depth, add 12.5mm to the above clearance for every 25mm of additional projection depth.

2.11 Please note that soft wall coverings (e.g. embossed vinyl's etc.) are easily affected by heat. They may, therefore, scorch or become discoloured when close to a heating appliance. Please bear this in mind when installing.

2.12 The appliance **MUST NOT** be installed in any room which contains a bath or shower or where steam is regularly present.

2.13 An extractor fan **MUST NOT** be fitted in the same room as the appliance or in any area from which ventilation is taken **IF IT IS LIKLEY TO AFFECT THE SAFE OPERATION OF THE APPLIANCE.**
If there is a fan in such a locality, note the spillage test requirements detailed on page 16.

2.14 **VENTILATION REQUIREMENTS**
For use in **GB** purpose-built ventilation is not normally required for this appliance.
For use in **IE** ventilation must be in accordance with IS 813.

2.15 It is essential that all decorative fenders have a minimum open area of 50cm_ to ensure adequate air supply for correct combustion.

3 CHECK CARTON CONTENTS

Check the contents are as follows:

- ❑ 1 Burner Unit.
- ❑ 1 Hotbox or Convector Box. (eco 1& 2 only)
- ❑ 1 Isolation Elbow with Nut & Olive.
- ❑ 1 Set of fuel effect pieces (see page 6).
- ❑ 1 Remote Receiver (*Remote Version Only*).
- ❑ 1 Remote Handset (*Remote Version Only*).
- ❑ 1 Instruction Manual.
- ❑ 1 Fixing Kit

Remove the contents carefully checking that all the listed parts are present and in good condition.

4 THE FIREPLACE

4.1 **FIREPLACE SIZE**

Make sure that the fireplace conforms to the sizes stated in 2.2 of General Installation Requirements (refer to Figure 4).

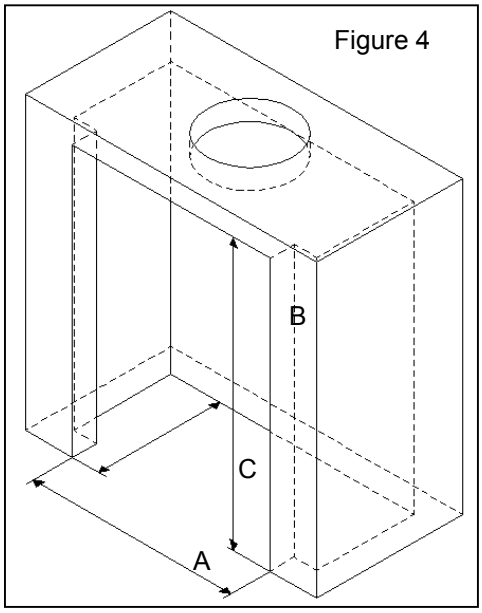


Figure 4

The fireplace opening should be in good order and have a reasonably flat floor level with the hearth.

4.2 After preparing the fireplace, apply a lighted match, paper or smoke match to the chimney opening. Observe the smoke. If there is a definite flow into the opening, continue with the installation. If there is not a definite flow, pre-heat the chimney for a few minutes and re-check. If there is still no definite flow, the chimney may need attention. **DO NOT FIT THE APPLIANCE – SEEK EXPERT ADVICE.**

5 GAS SUPPLY PIPE

A nut and olive is provided for the copper pipe inlet connection via the Isolation Tap.

NOTE: The supply pipe must be of rigid durable material. Flexible pipe MUST NOT be used.

6 APPLIANCE INSTALLATION

6.1 The burner tray should be removed from the fire first. To do this remove the two screws from the base of the control panel beneath the control knob. Then disconnect the compression nut on the top of the isolation elbow (see Figure 5). The burner assembly can now be lifted off the base plate leaving behind the Hotbox or Convector box and the isolation elbow. Place the burner assembly carefully to one side using the packaging to protect any surface from damage.

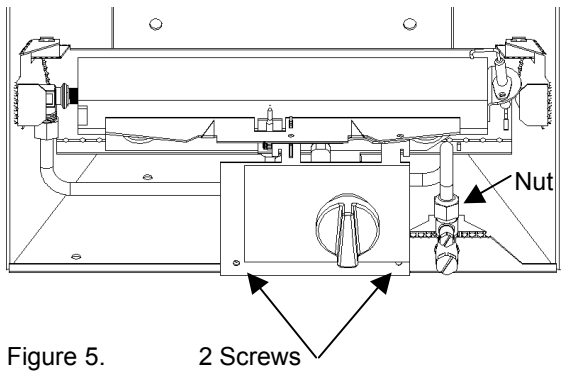


Figure 5.

6.2 Decide where the gas pipe will be entering the Hotbox or Convector box and remove the relevant knockout using a hammer and chisel/screwdriver. Place the box into the fireplace opening. Ensure that it is in the centre of the opening and mark the required screw positions in the front frame of the box. Drill and plug the wall using the plugs provided. Secure the box in place using the screws provided. If the alternative cable fixing kit is to be used, please read the installation instructions enclosed with the kit in conjunction with these instructions.

6.3 Once the box has been securely fixed, the gas supply can be connected to the isolation elbow. Gas connection is by concealed connection only. ***Remember to protect the end of the supply pipe when passing through walls, cavities etc, to stop brick dust and debris entering the pipe and causing a blockage or damage to valves and components.***

6.4 **HAVE YOU PURGED THE GAS SUPPLY PIPES?** This is essential to expel any foreign matter that might be blown into the valve assembly, injector, or pilot etc. and cause a blockage.

6.5 Once the gas supply has been connected and purged then the burner assembly can be refitted in the reverse order to removal ensuring that the tabs on the rear support, on the rear of the burner, fit into the slots on the sides of the firebox (see Figure 6).

6.7 CHECK FOR GAS SOUNDNESS

Turn on the gas supply and check for gas soundness with a suitable leak detection fluid (see BS 6891).

Please check all joints including the pilot assembly.

6.8 FUEL BED ASSEMBLY

Please refer to the User's section for details on assembling the fuel effect components (Page 5).

6.9 CANOPY INSTALLATION

Please refer to the users section for details on installing the E-Type / S-Type Canopy

7 FUNCTIONAL CHECKS

Remove the pressure test point sealing screw from the isolation elbow and attach a suitable pressure gauge.

Light the pilot and check the correct operation of the burner at all the flame settings. Refer to the Operating instructions on pages 4 and 5.

Check that the inlet gas pressure is at 20mbar when the fire is at its highest setting.

Once the fire has been lit for 5 minutes turn the gas OFF at the isolating elbow. After a further 3 minutes turn the gas supply ON again, if the gas has stopped flowing, the Flame Supervision Device (FSD) is operating correctly. Always check that the gas has stopped flowing even if you hear the FSD valve close within the 3-minute period.

Turn OFF the appliance and the gas supply and refit the pressure test point sealing screw.

Turn ON the gas supply and check for leaks around the pressure test point sealing screw with a suitable leak detection fluid.

8 CHECK FOR SPILLAGE

A SPILLAGE CHECK MUST BE MADE BEFORE THE INSTALLED APPLIANCE IS LEFT WITH THE CUSTOMER. DO THIS TEST WITH ALL THE COALS FITTED AND THE FENDER AND ASHPAN IN PLACE. CARRY OUT THE TEST AS FOLLOWS:

8.1 Close all doors and windows in the room containing the appliance.

8.2 Light the appliance and set to the HIGH setting.

8.3 Leave the appliance ON for 5 minutes then light a smoke match. The match should be inserted 10mm below the top of the opening and be pointed upwards at 45° to the horizontal.
Move the smoke match across the opening. The installation is satisfactory if all the smoke is drawn into the chimney.

8.4 If all the smoke is not drawn into the chimney, leave the fire alight for a further 10 minutes at the HIGH setting and then repeat the test. If all the smoke is still not drawn into the chimney, inspect the sealing to the fireplace surround. If the sealing is satisfactory DISCONNECT THE APPLIANCE AND SEEK EXPERT ADVICE.

8.5 Open all internal connecting doors, hatches, etc in the same room as the appliance. Keep all the doors and windows that open to the outside of the building closed. Re-check for spillage as described above. If an extractor fan is fitted in the same room as the appliance or a connecting room, check that spillage does not occur with the fan operating, all doors, and other openings between the fan and the appliance open.

9 FINAL CHECK AND CUSTOMER BREIFING

9.1 Instruct the customer on the full operation of the appliance.

9.2 Advise the customer how to assemble the fuel effect as described in these can be removed as described in CLEANING on page 4 of these instructions.

9.3 Advise the customer that any cleaning MUST be carried out when the appliance is cold.

9.4 Please explain to the customer the purpose of the Oxygen Depletion System (ODS) and in particular the following:

(a) The ODS system operates if the Oxygen level in the room falls below safe levels usually due to interruption of the evacuation of combustion products i.e. a blocked chimney etc.

(b) Describe the restart procedures.

(c) Point out that on repeated operation of the ODS system seek expert advice.

9.5 Hand over these instructions to the customer for keeping in a safe place.

9.6 Recommend that the appliance and chimney should be inspected and serviced by a competent person annually.

10 SERVICING

TURN OFF THE GAS SUPPLY AND ALLOW TO COOL BEFORE COMMENCING ANY SERVICING. ALWAYS TEST FOR GAS SOUNDNESS AND SPILLAGE AFTER REFITTING THE APPLIANCE. (A LONG BRUSH MAY BE REQUIRED TO REACH SOME JOINTS FOR SOUNDNESS TESTING.)

Check that the appliance is clean and that soot deposits or debris is not blocking the gaps between coals causing an imperfect flame appearance or that stray pieces of soot are not impairing the electrode spark or pilot burner.

After servicing, make sure that the fuel effect is correctly assembled as described on pages 9 – 15.

10.1 TO REMOVE THE BURNER UNIT

(a) Remove the fender and ash pan cover together with all the fuel effect pieces.
(b) Disconnect the appliance from the gas-isolating elbow and remove the two screws (refer to Figure 5.). The burner tray can now be lifted up and away from the base of the box.

(c) Re-assemble in the reverse order ensuring that the tabs on the burner support bracket on the rear of the burner fit into the slots on the firebox sides (see Figure 6.)

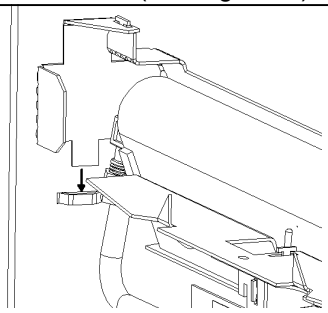


Figure 6

10.2 TO REMOVE THE THERMOCOUPLE

(a) Follow 10.1 above to remove the burner tray.
(b) Disconnect the thermocouple connection from the back of the gas valve.
(c) Remove the nut securing the thermocouple to the burner.
(d) If defective, replace the thermocouple.
(e) Re-assemble in the reverse order.

10.3 TO REMOVE THE GAS TAP / FSD / IGNITION UNIT

(a) Follow 10.1 above to remove the burner tray.
(b) Disconnect the electrode lead from the electrode.
(c) Remove the fixing screw shown in Figure 7.
(d) Remove the electrode from the burner check and replace if necessary.
(e) Re-assemble in reverse order.

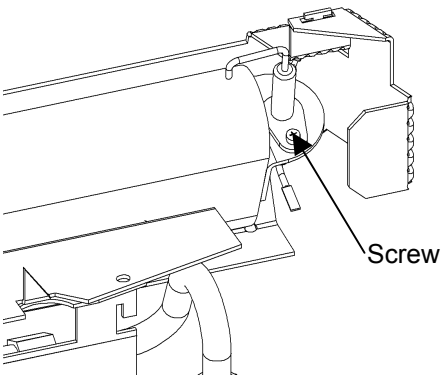
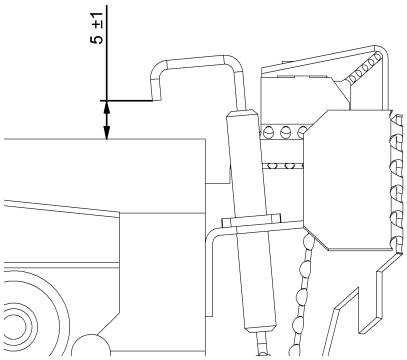


Figure 7

Figure 8



11 MAINTENANCE SPARES

During servicing and maintenance your appliance may need some replacement parts. Here is a short list of spare parts that are available. Please contact SIROCCO if other parts are required:

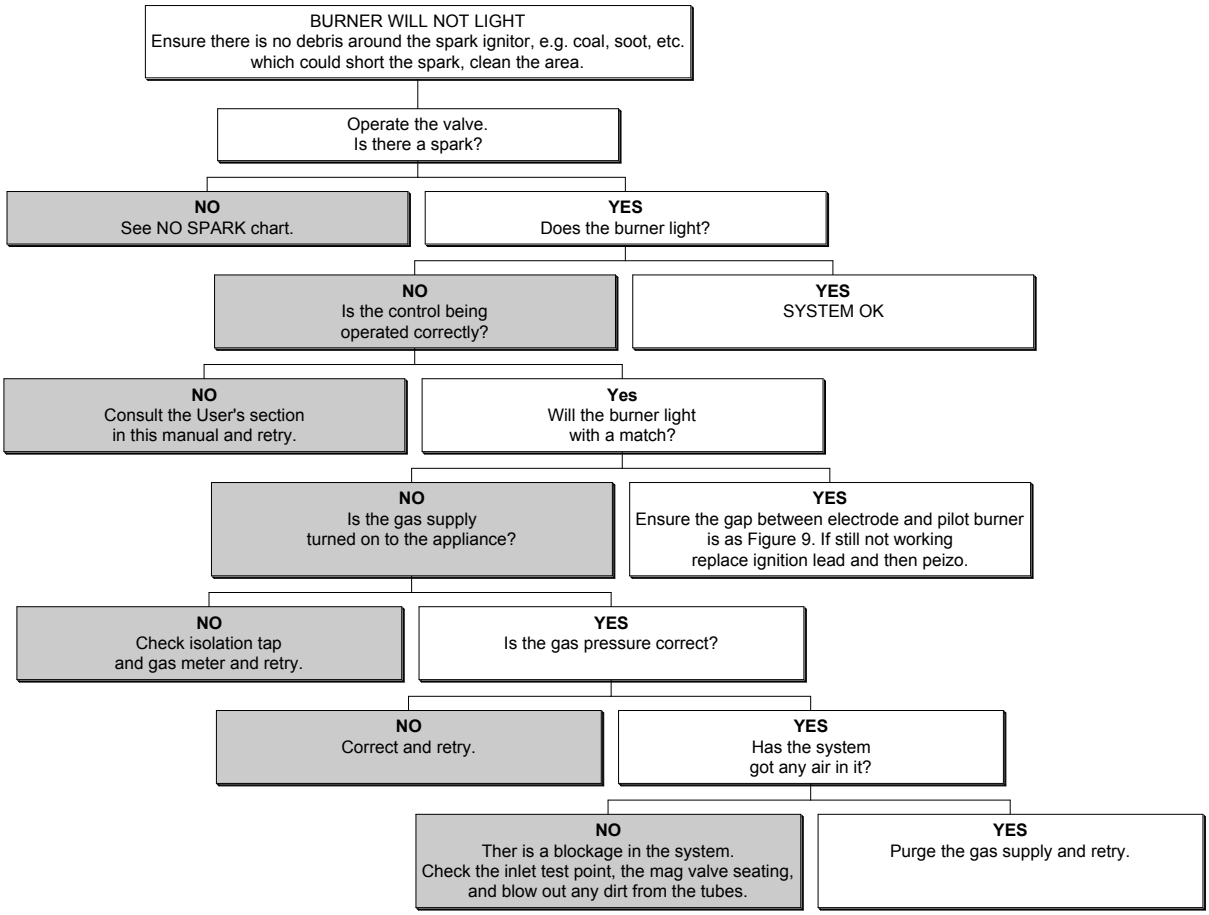
Eco 1,2 & 3 Only

Supplier Ref.	Description	Manufacturers Part No.
	Coals Kit (Black)	1472-1
	Pebbles Kit (Grey)	1473-1
	Pebbles Kit (Sandstone)	1474-1
	Pebbles Kit (Mixed)	1475-1
	Front Ceramic (Black)	1466-1
	Rear Ceramic (Black)	1467-1
	Front Ceramic (Grey)	1468-1
	Rear Ceramic (Grey)	1469-1
BE/3703/SI	Spark Electrode	1246-1
CPMM 18700/344	Gas Valve	1198-1
K1-32	Control Knob	1096-1
CAT 82/460	Injector	1442-1
T100/611	Thermocouple	1447-1

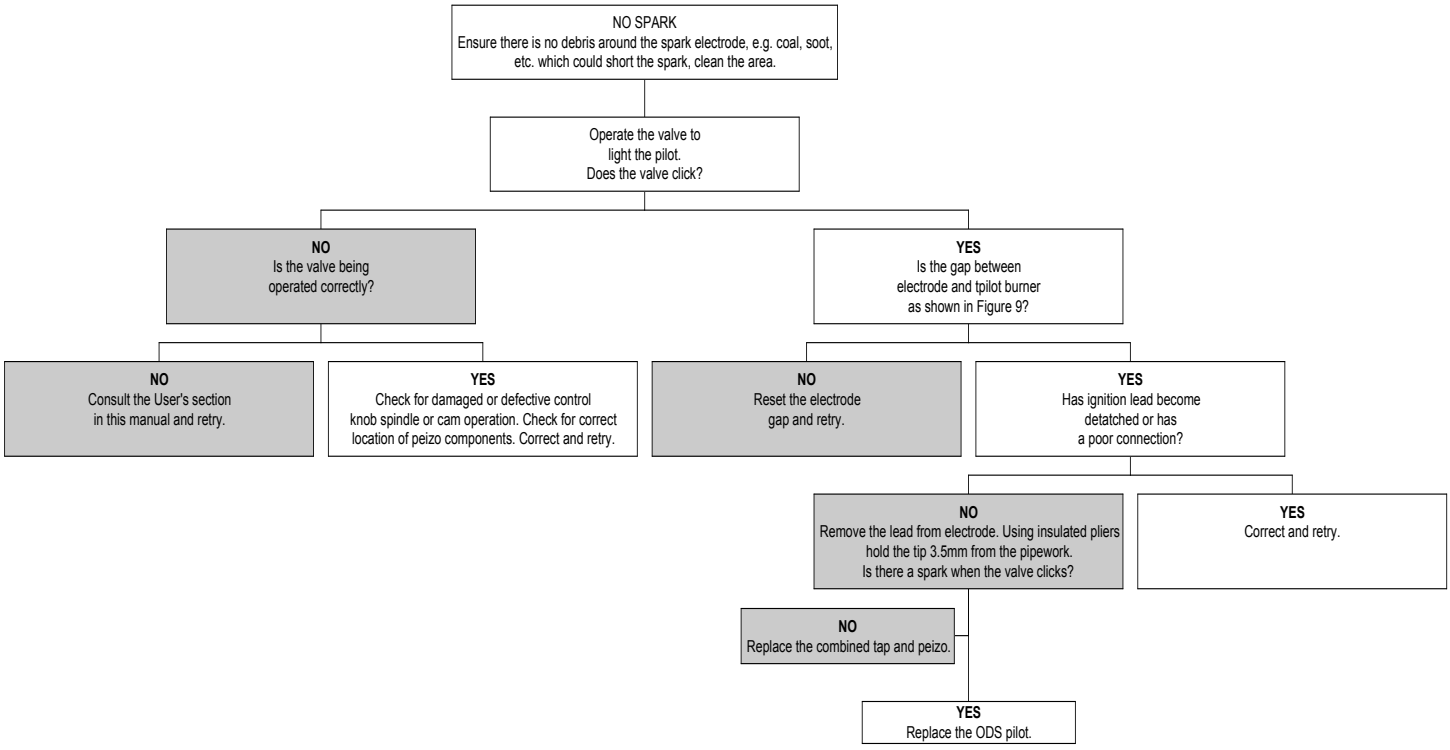
12 FAULT FINDING

FAULT	CAUSE / POSSIBLE REMEDY
Pilot will not light.	See Ignition Functional Check 1.
No spark.	See Ignition Functional Check 2.
Pilot will not stay lit or fire goes out in use.	See Flame Failure Functional Check.
Uneven flame pattern e.g. flame at one side only.	1. The fuel effect may need adjusting to even the flame pattern. See page 6.
Blue flames.	1. The fire will burn blue on initial lighting, until sufficient heat is generated causing the flames to burn yellow. Typically 10 minutes.
	2. Insufficient gas pressure. Check the supply pressure to the appliance.
	3. The primary aeration may be obstructed by dirt, lint, etc. Clean and re-check.
Fuel bed partially glowing at front.	1. Insufficient gas pressure. Check the supply pressure to the appliance.
	2. The visual effect is controlled by the placement of the fuel effect pieces. Try slight adjustments. See page 6.
Popping noises.	1. Some popping noises will always be present. Severe popping may be caused by incorrect gas pressure. Check the supply pressure to the appliance.
	2. Try slight adjustments to the fuel effect pieces. See page 6.

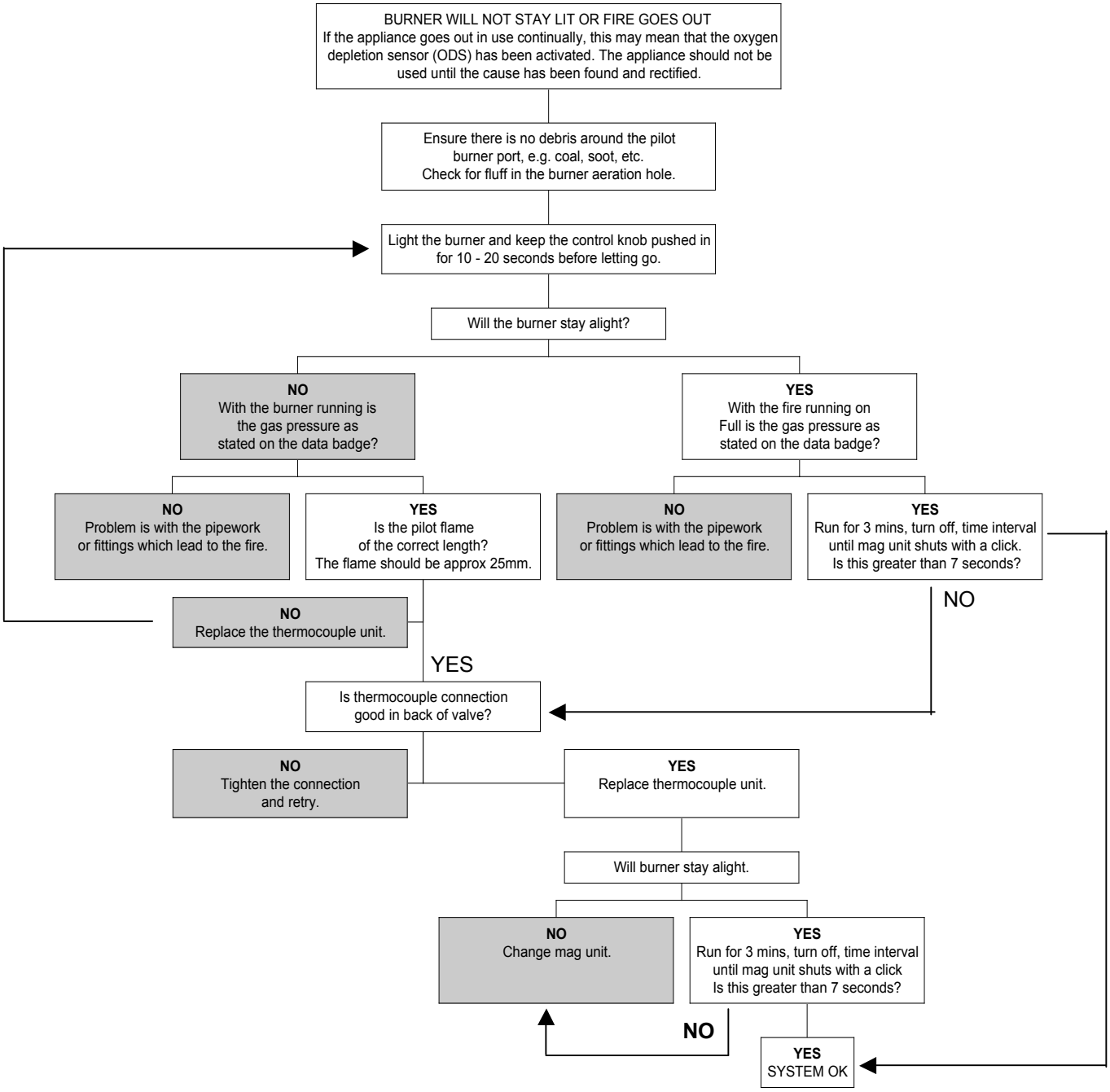
IGNITION FUNCTIONAL CHECK 1


BURNER WILL NOT LIGHT
Ensure there is no debris around the spark ignitor, e.g. coal, soot, etc. which could short the spark, clean the area.
Operate the valve.
Is there a spark?
NO
See NO SPARK chart.
YES
Does the burner light?
NO
Is the control being operated correctly?
YES
SYSTEM OK
NO
Consult the User's section in this manual and retry.
Yes
Will the burner light with a match?
NO
Is the gas supply turned on to the appliance?
YES
Ensure the gap between electrode and pilot burner is as Figure 9. If still not working replace ignition lead and then peizo.
NO
Check isolation tap and gas meter and retry.
YES
Is the gas pressure correct?
NO
Correct and retry.
YES
Has the system got any air in it?
NO
Ther is a blockage in the system. Check the inlet test point, the mag valve seating, and blow out any dirt from the tubes.
YES
Purge the gas supply and retry.

IGNITION FUNCTIONAL CHECK 2


NO SPARK
Ensure there is no debris around the spark electrode, e.g. coal, soot, etc. which could short the spark, clean the area.
Operate the valve to light the pilot.
Does the valve click?
NO
Is the valve being operated correctly?
YES
Is the gap between electrode and tpilot burner as shown in Figure 9?
NO
Consult the User's section in this manual and retry.
YES
Check for damaged or defective control knob spindle or cam operation. Check for correct location of peizo components. Correct and retry.
NO
Reset the electrode gap and retry.
YES
Has ignition lead become detatched or has a poor connection?
NO
Remove the lead from electrode. Using insulated pliers hold the tip 3.5mm from the pipework.
Is there a spark when the valve clicks?
YES
Correct and retry.
NO
Replace the combined tap and peizo.
YES
Replace the ODS pilot.

FLAME FAILURE FUNCTIONAL CHECK


BURNER WILL NOT STAY LIT OR FIRE GOES OUT
If the appliance goes out in use continually, this may mean that the oxygen depletion sensor (ODS) has been activated. The appliance should not be used until the cause has been found and rectified.
Ensure there is no debris around the pilot burner port, e.g. coal, soot, etc.
Check for fluff in the burner aeration hole.
Light the burner and keep the control knob pushed in for 10 - 20 seconds before letting go.
Will the burner stay alight?
NO
With the burner running is the gas pressure as stated on the data badge?
YES
With the fire running on Full is the gas pressure as stated on the data badge?
NO
Problem is with the pipework or fittings which lead to the fire.
YES
Is the pilot flame of the correct length?
The flame should be approx 25mm.
NO
Problem is with the pipework or fittings which lead to the fire.
YES
Run for 3 mins, turn off, time interval until mag unit shuts with a click.
Is this greater than 7 seconds?
NO
NO
Replace the thermocouple unit.
YES
Is thermocouple connection good in back of valve?
NO
Tighten the connection and retry.
YES
Replace thermocouple unit.
Will burner stay alight.
NO
Change mag unit.
YES
Run for 3 mins, turn off, time interval until mag unit shuts with a click
Is this greater than 7 seconds?
NO
YES
SYSTEM OK